Use Attainability Analysis

for

WBID 0316 Todd Creek

Submitted by Tetra Tech, Inc

To Missouri Department of Natural Resources Water Protection Program

RECEIVED

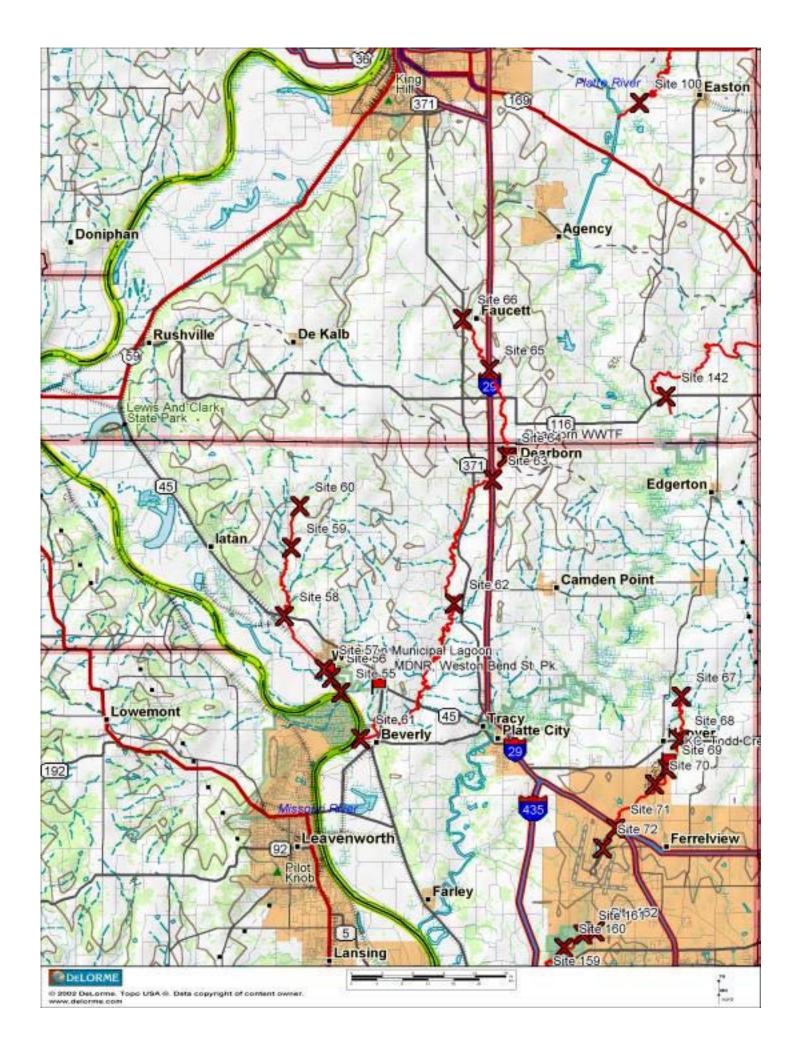
Field Data Sheets for Recreational Use Stream Surveys

APR 0 6 2005

Data Sheet A - Water Body Identification

WATER PROTECTION PROGRAM

Water Body Name: (from USGS 7.5' quad) TODD しんそのく: (フ・フュ	
8-digit HUC: (62400)2	
Missouri WBID #: 0316	
County: PLATTE CTY	
Upstream Legal Description:	
Downstream Legal Description:	
Upstream Coordinates: (UGS 84, ddd.ddddd) 39.33150 -094. 69635	
Downstream Coordinates: (UGS 84, ddd.ddddd) 31/37070 -014, 45512	
Discharger Facility Name(s): TODD CAREK UNTE	kc
Discharger Permit Number(s):	MD-0024961
Number of Sites Evaluated: 6	
Name of Surveyor and Telephone Number: CHAO BANSOUL 410-	756-8 19 3
Organization: TETAA TECH INC.	
Position: ASSOCIATE SCHONTEST	
, the undersigned, hereby affirm to the best of my knowledge, latasheet is true and accurate.	
Signed: CldM	Date: 0 3 イリーング



Data Sheet B - Site Characterization (A separate data sheet must be completed for each site)

Missouri WBID #: 67	,		Site Location Description: READ CLOSED: COULD NOT FIND LANDOWNER.			
Site GPS Coordinates:			- POAD CLOSES	I COULD NOT FIND LA	MUDDING (
Date & Time: 03-14-0	5; 1510	·····	Facility Name:			
Personnel: CHAD BAN		OBJEN	Permit Number:			
Current Weather Conditi	ions: 40°F, PAN	LY CLOUDY	Weather Conditions for Past 7 days:			
Photo Ids: Upstream: Downstream:			Othe	r.		
ses Observed*:						
Cl Swimming	☐ Skin diving	□ sc	UBA diving	□ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking	□ Bo	ating	□ Wading	☐ Rafting	
☐ Hunting	☐ Trapping	☐ Fis	hing	☐ None of the above	☐ Other:	
Describe: (include numb	er of individuals rec	reating, tredt	iency of use, photo	-documentation of evidence	or recreational uses, etc.)	
				uses. Attach photos of evider	, , , , , , , , , , , , , , , , , , ,	
urrounding Condition		promote or in				
urrounding Conditionems of interest.)	ns*: (Mark all that)	promote or in	npede recreational onservation lands	uses. Attach photos of evider	nce or unusual	
urrounding Conditionems of interest.) City/county parks	ns*: (Mark all that p	promote or in	npede recreational conservation lands	uses. Attach photos of evider	nce or unusual	
urrounding Conditionens of interest.) City/county parks Boating accesses	ns*: (Mark all that Playgrounds State parks Fence	promote or in MDC co	npede recreational conservation lands	uses. Attach photos of evider Urban areas Nature trails	nce or unusual	
urrounding Conditioners of interest.) City/county parks Boating accesses No trespass sign	ns*: (Mark all that Playgrounds State parks Fence	promote or in ☐ MDC co ☐ Nationa ☐ Steep slo	npede recreational conservation lands	uses. Attach photos of evider Urban areas Nature trails	nce or unusual	
urrounding Conditioners of interest.) City/county parks Boating accesses No trespass sign	ns*: (Mark all that Playgrounds State parks Fence	oromote or in ☐ MDC co ☐ Nationa ☐ Steep slo	npede recreational onservation lands I forests Opes	uses. Attach photos of evider Urban areas Nature trails Other:	Campgrounds ☐ Stairs/walkway	

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

	Width (ft):		Length (ft):	Avg. De	pth (ft):	Max. Depth (ft):	
□ Run	Width (ft):	it): Length (ft):		Avg. De	epth (ft):	Max. Depth (ft):	
☐ Pool	Width (ft):	'	Length (ft):	Avg. Do	pth (ft):	Max. Depth (ft):	······································
C Flow	Present?	□ Yes	□ No	Estimate	ed (ft³/sec):		
ownstrea	m View F	hysical	Dimensions:				
	Width (ft):		Length (ft):	Avg. De	epth (ft):	Max. Depth (ft):	
□ Run	Width (ft):	<u>'</u>	Length (ft):	Avg. De	pth (ft):	Max. Depth (ft):	
□ Pool	Width (ft):		Length (ft):	Avg. De	pth (ft);	Max. Depth (ft):	
				Estimated (ft ³ /sec):			
strate*: (I No			% Mud/Clav	% Bedro
strate*: (These value	s should a	add up to 100%.) Gravel	Estimate % Sand algal growth at the	% Silt	% Mud/Clay	% Bedro
strate*: (%	These value Cobble etation*: (s should a	add up to 100%.) Gravel	% Sand	% Silt	% Mud/Clay	% Bedro
strate*: (%	These value Cobble etation*: (s should a 9 note amou	add up to 100%.) Gravel int of vegetation or all that apply.)	% Sand	% Silt	% Mud/Clay	% Bedro
strate*: (% natic Vege ter Chara	These value Cobble etation*: (s should a	add up to 100%.) Gravel	% Sand algal growth at the	% Silt assessment site)		% Bedro
strate*: (% uatic Vege	These value Cobble etation*: (s should a % note amou *: (Mark: Sewage	add up to 100%.) Gravel unt of vegetation or all that apply.)	% Sand algal growth at the	% Silt assessment site) None	□ Other:	% Bedro

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed:	W()4	\mathcal{V}		······	Date:	3-14-05		
Organization:_	TETNA	Тесн	INC.	·····	Position:	ASSICIATE	SCIENTIST	





Data Sheet B - Site Characterization
(A separate data sheet must be completed for each site)

Missouri WBID #: 67	*	····	Site Location	Description: N of ANTE TO CENSELVE		
Site GPS Coordinates:	134.37076 Ube	4.65592	4 200W W3VI	H OF ANTE TO CENONE WE	~ -	
Date & Time: 0 2 15 -			Facility Name	: Ture (neek		
Personnel: Open Con		k <i>aseen</i> /	Permit Numbe			
Current Weather Condit	ions: 40° 7 (NAT	LA CFONA	Weather Conditions for Past 7 days:			
Photo Ids: Upstream:		vnstream: /5	ing Ott	ner:		
Jses Observed*: Now!	······································	•				
☐ Swimming	<u> </u>		UBA diving	☐ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking	ПВо	 	☐ Wading	☐ Rafting	
☐ Hunting	☐ Trapping	☐ Fis		None of the above	☐ Other:	
	ns*: (Mark all that j	promote or in	npede recreational	uses. Attach photos of evide	nce or unusual	
ems of interest.) □ City/county parks	☐ Playgrounds	☐ MDC co	onservation lands	☐ Urban areas	☐ Campgrounds	
☐ Boating accesses	☐ State parks	☐ National	forests	☐ Nature trails	☐ Stairs/walkway	
☐ No trespass sign	☐ Fence	☐ Steep slo	pes	D Other: AGRIC VCTV	• • • • • • • • • • • • • • • • • • • 	
vidence of Human U	se*:	· ·				
☑ Roads	☐ Foot paths/pri	nts 🗆 I	Oock/platform	☐ Livestock Watering	□ RV / ATV Tracks	
☐ Rope swings	Camping Site	s 🗆 I	Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle	
☐ Other:	1					
ther items that may be	of interest. (Included interest intended to direct need further analysis	ude photog ctly influence s or that effect	raphs) a decision on any t another use.	isment sites clearly labele one particular recreational u	·	
September 29, 2004		1	nz-16-7		Dage 19	

Page Two - Data Sheet B for WBID #___67 **:

Stream Morj Upstream			mensia	ns: Oa	ان،ن، دار دا	i hd. h	:0		
□ Riffle	Width (ft)			th (ft):		vg. Depth		Max. Depth (ft):	
☑ Run	Width (ft)	8.7m	Leng	th (ft):	3000 /	Avg. Depth	(ft): 0,0800	Max. Depth (ft):	: 013m
□ Pool	Width (ft)):	Leng	th (ft):	· · · · · · · · · · · · · · · · · · ·	lvg. Depth		Max. Depth (ft):	
Flow	Present?	E Yes	□ No		F	stimated (f	t³/sec): 🚽 🔀	124 : 4m = 160 : 4m = 25	
Downstre	am View	Physical	Dimen	sions:	0.02.00 2			FLOW : 0. Har/s	
☐ Riffle	Width (ft)			th (ft):		vg. Depth		Max. Depth (ft):	
🗹 Run	Width (ft)	· 7-n	Leng	th (ft):	20/1	vg. Depth	(ft): 0.06 N	·······	
☐ Pool	Width (ft)):		th (ft):		vg. Depth	····	Max. Depth (ft):	
Z Flow	Present?	☑ Yes	□ No		F	stimated (f	t³/sec): 4	105:47=155:47=10	
Fubetrata*.	(Th		33	10000		*****		FLOW = 0.36 mls	
Substrate*:	Cobble		Gravel	(.700% יכ		7,5	% Silt	% Mud/Clay	% Bedrock
Vater Chara	acteristic	S*: (Mark	all that ap	ply.)					
Odor:] Sewage		lusky	☐ Chem	nical	1 None	☐ Other:	
Color:] Clear		reen	☐ Gray		Milky	TOther: SAGO	۸/
Bottom Dep	posit: [Sludge	□s	olids	Fine:	sediments	□ None	☑ Other: 53.400	
Surface Dep	posit: 🛭	Oil	□s	cum	☐ Foam	l	□ None	☐ Other:	
This informatic omprehensive u ecision on the r , the unders atasheet is 1	on is not to understand recreation i rigned, he true and	be used solving of water use analysis ereby affi accurate.	ely for recondition but may rm to the	moval cons. Conspoint to	of a recreationansequently, this conditions that	I use design informatio t need furth wledge, th	nation but rati n is not inten er analysis on hat all info	terviews) to this form her is to provide a more ded to directly influence r that effect another use.	a n this UAA
								TIC SCIENTIST	
$\sqrt{}$		- 03							age 19





Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 68	***************************************			Site Location Description: STAGAM CASSING AT AT AT 12			
Site GPS Coordinates: n	739.36975 W	344.LS6	STAVAM	u chors	JAG AT RT. TA		
Date & Time: 03-14-		Y	Facility N	lame:	······································		
Personnel: CHAD DAN	·	Rober	~ Permit Nu	Permit Number: Weather Conditions for Past 7 days:			
Current Weather Condit	ions: 40°F; TN	MTLY CI	Weather C				
Photo Ids: Upstream:	Photo Ids: Upstream: 1536 B Downstream: 1			Other:		······································	
	···						
Uses Observed*:	·· ·					<u> </u>	
☐ Swimming	☐ Skin diving		☐ SCUBA diving		☐ Tubing	☐ Water skiing	
☐ Wind surfing	☐ Kayaking		☐ Boating		Wading Co	☐ Rafting	
☐ Hunting	Trapping cé	o i	□ Fishing		☐ None of the above	☐ Other:	
Surrounding Condition	ns*: (Mark all tha	t promote	or impede recreati	ional use	es. Attach photos of evider	nce or unusual	
☐ City/county parks	☐ Playgrounds	. Пм	DC conservation la	ands	☐ Urban areas	☐ Campgrounds	
☐ Boating accesses	☐ State parks	□ Na	tional forests		☐ Nature trails	☐ Stairs/walkway	
☐ No trespass sign	☐ Fence	E Ste	æp slopes		☐ Other:	<u> </u>	
Evidence of Human U	se*:						
Roads	☐ Foot paths/p	rints	☐ Dock/platform	n ,	☐ Livestock Watering	☐ RV/ATV Tracks	
☐ Rope swings	☐ Camping Sit	es	☐ Fire pit/ring		☐ NPDES Discharge	☐ Fishing Tackle	
☐ Other:							
b.,				•			

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two – Data Sheet B for WBID #_____:

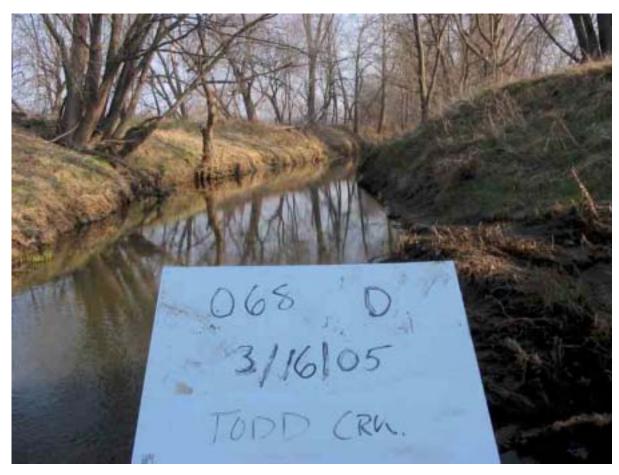
☐ Riffle	Width (* 1•	T	th (ft):		Avg. Depth (Φ1.	May Dank /At-	
		·····						Max. Depth (ft):	
□ Run	Width (· · · · · · · · · · · · · · · · · · ·		gth (ft):		Avg. Depth (Max. Depth (ft):	
☑ Pool	Width (1): 6 <u>~</u>		ւր (tt)։ Ֆ		Avg. Depth (
☐ Flow	Present'	Ø Ye₃	□ No			estimated (ft	3/sec): 4 _{m =}	285; 4m=205; 4m=	305
Downstre	am Vie	v Physical	Dimen	sions: O	•			FION > 0.14 m	5
□ Riffle	Width (th (ft):		Avg. Depth (Max. Depth (ft):	*****
2 Run	Width (t): 7.3m	Leng	gth (ft): 2	0 %	vg. Depth (ft): 0.23	Max. Depth (ft):	0.32m
□ Pool	Width (Leng	gth (ft):		Avg. Depth (ft):	Max. Depth (ft):	
□ Flow	Present	☐ Yes	□ No		I	stimated (ft	³/sec): 4 _{m =}	185: 4m=205; 4m=2	 55
								FLOW = 0.19 MI	,]
	(These v	dues should:	add up to 6 Gravel	100%.) 50	% Sand		% Silt	% Mud/Clay	% Bedroo
, , , , , , , , , , , , , , , , , , , ,	**	<u> </u>				1 .			
Nane				***************************************	aigai growt	ii at the asse	ssment site)		
NONE		ics*: (Mark	all that ap	oply.)					
NONE ater Char Odor:		ics*: (Mark	all that ap	oply.) Jusky	□ Chen	nical	None	□ Other:	
ater Char Odor: Color:	acterist	ics*: (Mark □ Sewage ☑ Clear	all that ap	oply.)	□ Chen	nical	None	Other:	
ater Char Odor: Color: Bottom De	acterist	ics*: (Mark	all that ap	oply.) Jusky	□ Chen	nical	None		
ater Char Odor: Color:	acterist	ics*: (Mark □ Sewage ☑ Clear	all that ap □ M □ C □ S	oply.) Ausky Green	□ Chen	nical sediments	☑ None ☑ Milky(Other:	
ater Char Odor: Color: Bottom De Surface De mments: his informatinprehensive	eposit: Please a on is not understar recreation	ics*: (Mark Sewage Clear Sludge Oil ttach addit: to be used solding of water	all that ap	Joply.) Musky Green Solids Coum moval of a ns. Consequent to co	Chen Cray Fine Foan (including recreations quently, this anditions the	sediments information is information information information in need further	None Milky(s None None on from ir ation but rate is not interer analysis o	Other: SAND other	
ater Char Odor: Color: Bottom De Surface De omments: his informati imprehensive his informati the unders tasheet is	posit: posit: Please a on is not understar recreation signed, true an	ics*: (Mark Sewage Clear Sludge Oil Itach addit to be used solding of water analysis thereby affid accurate	all that ap	Joply.) Jusky Joreen Jolids Journ John March 1988 J	Chen Cray Fine Foan (including recreations quently, this anditions the	sediments information is information information information in need further	None Milky(s None None on from ir ation but rate is not interer analysis o	Other: SAND Other: SAND Other: SAND Other: tterviews) to this form ther is to provide a more ded to directly influence a	
ater Char Odor: Color: Bottom De Surface De omments: his informati imprehensive his informati the unders tasheet is	posit: posit: Please a on is not understar recreation signed, true an	ics*: (Mark Sewage Clear Sludge Oil Itach addit to be used solding of water analysis	all that ap	Joply.) Jusky Joreen Jolids Journ John March 1988 J	Chen Cray Fine Foan (including recreations quently, this anditions the	sediments information information information information information whedge, the	None Milky(some None None on from ir ation but rate is not interer analysis of	Other: SAND Other: SAND Other: terviews) to this form ther is to provide a more ded to directly influence a r that effect another use.	
ater Char Odor: Color: Bottom De Surface De omments: his informati inprehensive his informati info	posit: posit: posit: Please a on is not understar recreation signed, true an	ics*: (Mark Sewage Clear Sludge Oil Itach addit: o be used solding of water use analysis hereby affid accurate	all that ap	Joply.) Jusky	Chen Chen Gray Fine Foan (including recreations quently, this additions the	sediments information information in need further wledge, the	None Milky(s None None None non from ir ation but rate is not interer analysis of the content of the cont	Other: SAND other	n this UAA

Data Sheet B - Site Characterization (A separate data sheet must be completed for each site)

Keviset	(A separate u	iala Sileel I	nest de compiete	u for each site)			
Missouri WBID #: ()(<u>ال</u>		Site Location Des	scription:			
Site GPS Coordinates: 3		14.65124	2 @ BRAISE	ON 92			
Date & Time: 3/16/195	. 830ms		Facility Name:	7000 WWTD KC			
Personnel: AVE 40		······	Permit Number:				
Current Weather Condition		0.)	Weather Conditions for Past 7 days: Nucce 40				
Photo Ids: Upstream: (8x 1548C Dow	nstream: (*	1 42 1547 (Other:		7		
ses Observed*:							
☐ Swimming	Skin diving	□ so	UBA diving	☐ Tubing	☐ Water skiing		
☐ Wind surfing	☐ Kayaking	□во	pating	☐ Wading	☐ Rafting		
☐ Hunting	Trapping A	WZ TX	hing OV	None of the above	Other: Litwing		
Describe: (include numbe	r of individuals reci	reating, frequ	ency of use, photo-	locumentation of evidence			
* Spany pag		- W					
ns of interest.)	<u> </u>			es. Attach photos of evider	T		
☐ City/county parks	☐ Playgrounds		onservation lands	☐ Urban areas	☐ Campgrounds		
☐ Boating accesses	☐ State parks	☐ Nationa	·	☐ Nature trails	☐ Stairs/walkway		
☐ No trespass sign	☐ Fence	Steep sl	opes	Other:			
idence of Human Us	e*:		,				
Roads	☐ Foot paths/prir	nts 🗆	Dock/platform	☐ Livestock Watering	☐ RV / ATV Tracks		
☐ Rope swings	☐ Camping Sites		Fire pit/ring	☐ NPDES Discharge	☐ Fishing Tackle		
DO Other Looping	somy Yount						
te Locations Map(s): her items that may be of	of interest. (Inch	ude photog	ment with assessn raphs)	nent sites clearly labels	ed. Mark any		
ay point to conditions that n	eed further analysis	or that effect		•	n maryota vut		

Page Two Data S	Sheet B for V	VBID# 068	. Revistt			
_		,			225 24	h.
Stream Morpholo Upstream View		nensions: '.	32.41.45,.	35.3.2	5 145 24	M.
□ Riffle Width	···	Length (ft):	Avg. Depth		Max. Depth (ft):	
Run Width	(A): 5, 8/m	Length (ft):	20m Avg. Depth	(ft): D. 35m	Max. Depth (ft):	0.45m
□ Pool Width		Length (ft):	Avg. Depth		Max. Depth (ft):	
Flow Preser	u? X Yes	□ No	Estimated (f	1/sec): ()	lamis	
Downstream Vi	ew Physical l	Dimensions:	.32.38.2.19	5. 18 135 11	3 3 3 m 3	ا لمر
☐ Riffle Width		Length (ft):	Avg. Depth	7	Max. Depth (ft):	
Run Width	(ft): 7,dm	Length (ft): (Avg. Depth	(ft): 0,25n	Max. Depth (ft):	0.41
□ Pool Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
Flow Preser	nt? X Yes	□ No	Estimated (f	Hoses) AMC), 23 mls	
Cubatuatate (77)		11 . 1000				
Substrate*: (These % Cobbl			() % Sand	% Silt	% Mud/Clay	% Bedrock
Water Characteri	stics*: (Mark a	ill that apply.)				
Odor:	☐ Sewage	□ Musky	☐ Chemical	None	Other:	
Color:	Clear	☐ Green	☐ Gray	□ Milky	Other:	
Bottom Deposit:	□ Sludge	□ Solids	Fine sediments	□ None	☐ Other:	
Surface Deposit:	□ Oil	□ Scum	☐ Foam	None	☐ Other:	
This information is no comprehensive underst decision on the recreation, the undersigned datasheet is true a Signed:	t to be used sole anding of water on use analysis t , hereby affir	ely for removal of conditions. Cons but may point to c	(including informat a recreational use design equently, this informatio conditions that need furth of my knowledge, t	nation but rather in is not intended er analysis or th hat all inform	is to provide a more I to directly influence a at effect another use. nation reported on	
Organization:	t III	 	Position	n: <i>5&F</i>	, [,	
j	1 ma	in Brita	3-(6-	05		





Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID#: 69				Site Location Description: Bhavee Chossing AT			
Site GPS Coordinates: A	31.35340	W094,665	568	DITAVEE C	_{^QS3]	ING A	
Date & Time: 03-14-			•	Facility Nam	ie: Top	OD CREEK WITP	
Personnel: CHAN DAT	BOUN, JENA	amy hobi	;e~	Permit Number:			
Current Weather Condit.				Weather Conditions for Past 7 days:			
Photo Ids: Upstream: 15398 Downstream: 153				∍გ 0	ther:		· · · · · · · · · · · · · · · · · · ·
ses Observed*:	·						
☐ Swimming	☐ Skin divi	ing	□ sct	JBA diving	[☐ Tubing	☐ Water skiing
☐ Wind surfing	☐ Kayaking	g	□ Boa	ting	[☐ Wading	☐ Rafting
☐ Hunting	☐ Trapping	<u> </u>	□ Fish	ine	····	None of the above	D Other:
Describe: (include numb STREAM VENY SI						er.	
STREAM VERY SI	HALLOW .	 				······································	
STREAM VERY SI	ns*: (Mark all	that promo	te or imp		ual uses.	······································	nce or unusual
STREAM VERY SI	ns*: (Mark all	that promo	te or imp	pede recreation	al uses.	. Attach photos of evide	nce or unusual Campgrounds
urrounding Condition oms of interest.)	ns*: (Mark all	that promo	te or imp	pede recreation aservation land forests	s [. Attach photos of evide □ Urban areas	nce or unusual Campgrounds Stairs/walkway
urrounding Conditioners of interest.) □ City/county parks □ Boating accesses □ No trespass sign	ns*: (Mark all Playgrou State par	that promo	te or imp	pede recreation aservation land forests	s [. Attach photos of evide □ Urban areas □ Nature trails	nce or unusual Campgrounds Stairs/walkway
STREAM VERY SI urrounding Condition ems of interest.) City/county parks Boating accesses	ns*: (Mark all Playgrou State par	that promo	te or imp	pede recreation aservation land forests	s [. Attach photos of evide □ Urban areas □ Nature trails	nce or unusual Campgrounds Stairs/walkway
STREAM VERY SI urrounding Condition ems of interest.) City/county parks Boating accesses No trespass sign	ns*: (Mark all Playgrou State par	that promo	te or imp ADC con Vational teep slop	pede recreation aservation land forests pes	s [. Attach photos of evide ☐ Urban areas ☐ Nature trails ☐ Other: Schabo Ten	Campgrounds Stairs/walkway

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two – Data Sheet B for WBID #_____ :

ream Mor <u>Upstream</u>			mensions: 🕠	10, 10, 401	1,0.03.	
☐ Riffle	Width (f		Length (ft):	Avg. Depth		Max. Depth (ft):
🗹 Run	Width (f	1): 516 m	Length (ft): 7	Non Avg. Depth	(ft): 0,04m	Max. Depth (ft): 0.11
□ Pool	Width (f	t):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):
□ Flow	Present?	' Yes	□ No	Estimated (ft³/sec): 4 _M = 11s	: 4m=12; 4m=10s
Downstre	am Viev	w Physical	Dimensions: 0	, בביס, ביס, בו,		F10W= 0/36 413
□ Riffle	Width (f		Length (ft):	Avg. Depth		Max. Depth (ft):
⊠ Run	Width (f	t): 4.1	Length (ft): 🤉	o Avg. Depth	(ft): 0.15 ~	Max. Depth (ft): O.Q.
□ Pool	Width (f	t):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):
☐ Flow	Present?	☑ Yes	□ No	Estimated (ft ³ /sec): 4m = 174	140 :150 4 :15e
bstrate*:	(These va	alues should a	idd up to 100%.)			14x =153; 4x =155 FLOW = 0.25 x 13
	6 Cobble		Gravel 50	% Sand 40	% Silt	% Mud/Clay % Bed
Odor:		CS*: (Mark:	all that apply.) Ma	Y BE COMING FAC	STP BESJD ☐ None	G STAGAM. □ Other:
Color:		□ Clear	☐ Green		☑ Milky	Other: Bhoun
Bottom De		□ Sludge	□ Solids	Fine sediments	□ None	S Other: SAND
Surface De	•	□ Oil	□ Scum	☐ Foam	M None	Other:
is information in the information on the inders	on is not t understand recreation signed, h	o be used sole ding of water use analysis	ely for removal of a conditions. Conse but may point to co rm to the best of	a recreational use design equently, this information conditions that need furth	nation but rather in is not intended the analysis or the	to directly influence a
gned:	Jen'	UIV			03-14-05	
ganization		A TELH I		Positio	n: <u>Associate</u>	E SCIENTIFE
	74	R-69	7/14/05			
Septem	ber 29, 20	DO4	t = t			Page 19





Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

	Missouri WBID #: 70				Site Location Description: Cover Not Access Site, ROAD CLOSED.					
	Site GPS Coordinates: Date & Time: 03-14-05:1640 Personnel: CHAD BARBOUR, JERAMY ROBERN				Facility Name:					
					Permit Number:					
	Current Weather Conditions: 40°F, PARTLY CLOUDY				Weather Co	onditio	ns for Past 7 days:			
	Photo Ids: Upstream:		Downstre			Other:				
Use	es Observed*:				. ,					
	☐ Swimming	Skin divin	ıg	□ sct	JBA diving		☐ Tubing	☐ Water skiing		
	☐ Wind surfing	☐ Kayaking		□ Воа	ting		□ Wading	☐ Rafting		
ĺ	☐ Hunting	☐ Trapping		□ Fish	ing		☐ None of the above	☐ Other:		
	rrounding Condition	S*: (Mark all t	hat promo	te or imp	oede recreatio	onal us	es. Attach photos of evider	nce or unusual		
	☐ City/county parks	☐ Playgroun	nds 🔲 N	/DC con	servation lar	nds	☐ Urban areas	☐ Campgrounds		
	☐ Boating accesses	☐ State park	cs 🗀 N	National forests			☐ Nature trails	☐ Stairs/walkway		
ļ	□ No trespass sign	☐ Fence	□s	teep slop	es		☐ Other:			
Ev	idence of Human Use	e*:								
j	☐ Roads	☐ Foot paths	s/prints	□ D	ock/platform		☐ Livestock Watering	☐ RV / ATV Tracks		
	☐ Rope swings	☐ Camping	Sites	□ Fi	re pit/ring		☐ NPDES Discharge	☐ Fishing Tackle		
	Other:							_		
•			•			·				

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - Data Sheet B for WBID # 70 Stream Morphology: **Upstream View Physical Dimensions:** Width (ft): Length (ft): ☐ Riffle Avg. Depth (ft): Max. Depth (ft): Width (ft): Length (ft): Avg. Depth (ft): □ Run Max. Depth (ft): □ Pool Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): Estimated (ft³/sec): ☐ Flow Present? ☐ Yes □ No Downstream View Physical Dimensions: Width (ft): ☐ Riffle Length (ft): Avg. Depth (ft): Max. Depth (ft): Width (ft): Length (ft): C Run Avg. Depth (ft): Max. Depth (ft): Width (ft): Length (ft): Avg. Depth (ft): Max. Depth (ft): D Pool Estimated (ft³/sec): ☐ Flow Present? ☐ Yes □ No Substrate*: (These values should add up to 100%.) % Cobble % Gravei % Sand % Silt % Mud/Clay % Bedrock Aquatic Vegetation*: (note amount of vegetation or algal growth at the assessment site) Water Characteristics*: (Mark all that apply.) Odor: ☐ None ☐ Sewage ☐ Musky ☐ Chemical C Other: Color: ☐ Clear C Green □ Gray □ Milky ☐ Other: **Bottom Deposit:** Other: ☐ Sludge □ Solids ☐ Fine sediments □ None Surface Deposit: □ Oil ☐ Scum ☐ Foam ☐ None Other: Comments: Please attach additional comments (including information from interviews) to this form. *This information is not to be used solely for removal of a recreational use designation but rather is to provide a more

I, the undersigned, hereby affirm to the best of my knowledge, that all information reported on this UAA datasheet is true and accurate.

Signed: Chic. IM	Date: 03-14-05
Organization: TETMA TECH INC	Position: Assectate Scientist

comprehensive understanding of water conditions. Consequently, this information is not intended to directly influence a decision on the recreation use analysis but may point to conditions that need further analysis or that effect another use.

Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 70	*		Site Location Description: BNJOG CAGOTAGE OF TATONS AND					
Site GPS Coordinates:	v31.35860 Wor4	.67456	Facility Name: Top: Cheekward Permit Number: Weather Conditions for Past 7 days:					
Date & Time: 03-15-6	™. OE4O							
Personnel: CHAP 5-1	හික ්							
Current Weather Condi	tions: ろぎょうこうして	LYCLOUDA						
Photo Ids: Upstream:		vnstream: 13	.45B Oth	r:				
ses Observed*:					-			
™ Swimming	☐ Skin diving	□ sc	UBA diving	☐ Tubing	☐ Water skiing			
☐ Wind surfing	☐ Kayaking	□Во	ating	☑ Wading	☐ Rafting			
☐ Hunting	Mapping Con	Fis	hing	☐ None of the above	Other:			
Describe: (include num SLEEPING () ALS 4	ber of individuals rec アメハレ アコナ ログイコ	GAFALL, WA	enter duita	-documentation of evidence TNG USE CHECKED BEC BAGS GA SHOKE.	of recreational uses, etc.			
Describe: (include num SLEEPING (SALS 4-1 DEPTH 4 SI20 OF	ber of individuals rec FIRE PAT EVATI POOL WATH FO	erfall, wa	ANTHER DATES	TAG USE CHECKED BE	of recreational uses, etc.			
Describe: (include num SLEEPING ()ALS + DEPTH + SIZO OF	ber of individuals rec FIRE PAT EVATI POOL WATH FO	FAFAL, WA	ANTHER DATES	TNG USE CHUCUGO BEC BAGS ON SHOKE.	of recreational uses, etc.			
Describe: (include num SLEEPING (SALS +) DEPTH + SI20 OF urrounding Condition ms of interest.)	ber of individuals rec FAR PAT AVATO POOL WATH FO	FAFAL, WA	npede recreational	BAGS ON SHOKE.	of recreational uses, etc			
Describe: (include num SLEEPING (SALS + 1) DEPTH + SI > 0 0 P Urrounding Condition ms of interest.) City/county parks	Playgrounds	Promote or im	npede recreational enservation lands	JAG USE CHECKED BEE BAGS ON JHOKE. Uses. Attach photos of evidence Urban areas	of recreational uses, etc			
Describe: (include num SLEEPING (SALS +- DEPTH + SI20 OF Irrounding Conditions of interest.) City/county parks Boating accesses	Der of individuals rec FIAC PAT AVATO POOL WATH FOOL ONS*: (Mark all that p Description of the parks) Fence	promote or im MDC co	npede recreational enservation lands	JAC USE CHECKED BEE BAC> ON JHOKE. Uses. Attach photos of evider Urban areas Nature trails	of recreational uses, etc			
Describe: (include num SLEEPING (SALS +1) DEPTH + SIDO OF Irrounding Condition ms of interest.) City/county parks Boating accesses No trespass sign	Der of individuals rec FIAC PAT AVATO POOL WATH FOOL ONS*: (Mark all that p Description of the parks) Fence	promote or im MDC co	npede recreational enservation lands	JAC USE CHECKED BEE BAC> ON JHOKE. Uses. Attach photos of evider Urban areas Nature trails	of recreational uses, etc			
Describe: (include num SLEEPING (SALS + 1) DEPTH + SI20 OF Irrounding Conditions of interest.) City/county parks Boating accesses No trespass sign	Playgrounds Playgrounds Pence	promote or im MDC co National	apede recreational onservation lands	JAC USE CHUCKEO BEE BAC> AN JHOKE. Urban areas Under:	of recreational uses, etc			

other items that may be of interest. (Include photographs)

* ALTERNATE SITE LOCATION: ONTGINAL SITE LOCATION INACCONSIDE CES

September 29, 2004 TTR - 03 +505

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

Page Two - Data Sheet B for WBID # 70 * :

Stream Morpho Upstream Vi		sical Din	ensio	6 ո ֆ օ ոգ ns: N& Գ	য় ল ০ কম	52 ò.	<u>ک</u> کا		
	dth (ft):			th (ft):	,	vg. Depth		Max. Depth (ft):	
□ Run Wi	dth (ft):		Leng	th (ft):		vg. Depth	(ft):	Max. Depth (ft):	+
Pool Wi	dth (ft):	112	Leng	gth (ft): 👊	~ A	vg. Depth	(ft): 0.32m	Max. Depth (ft):	>53 <i>~</i> 1
□ Flow Pre	sent?	₽ Yes	□ No		E	stimated (1	t³/sec): 4 ₂₀ = 7€	Py: 4m=85,14m=75	····
Daymatyan	1/2ann 10	Mtt Y	```					FLOW: 0.05 Als	
Downstream Riffle Wi	dth (ft):	nysicai i		stons: 5 gth (ft):		vg. Depth		Max. Depth (ft):	·*************************************
	·····			gth (ft): 🍕					
	dth (ft):	21/10					(ft): c. il ~	Max. Depth (ft):).13^
	dth (ft):	·····	······	gth (ft):	· · · · · · · · · · · · · · · · · · ·	vg. Depth		Max. Depth (ft):	
☐ Flow Pre	sent?	Ø Yes	□ No			stimated (11 /sec): 4 ~ = 15	14m=14s ! 4m=12s	
ubstrate*: (Th	ese value	s should ad	d up to	100%.)				FLOW: 0.33 ~1,	
5 % Co	bble		Gravel	કુદ	% Sand	10	% Silt	% Mud/Clay .	% Bedrock
Odor:						1	☑ None		
Color:		Sewage		lusky	☐ Chem	ncal		☐ Other:	
·		Clear		lreen	☐ Gray		☐ Milky	☐ Other:	
Bottom Deposi		Sludge	□ S	olids		sediments	□ None	図 Other: Sawo	
Surface Deposi	t: 🖸 (Oil		cum	☐ Foam	l 	☑ None	☐ Other:	
This information is omprehensive unde ecision on the recreation, the undersign atasheet is true	not to be erstanding eation use ed, her	ch addition used solely of water canalysis been affire courate.	nal con y for re- condition ut may	mments (moval of a ns. Consect point to con	recreationa quently, this nditions tha	informat l use desig information t need furth	nation but rather on is not intende ner analysis or th	Other: rviews) to this form. is to provide a more d to directly influence a nat effect another use. mation reported on	
igned: 🕠	461	ln_	·			Date:	03-15-65		
								6 SC16WT3\$7	
	TR	63	-15	5-05	<u> </u>				





Acc. 21.4 Fb.

Data Sheet B - Site Characterization (A separate data sheet must be completed for each site)

Missouri WBID#: フロ				Site Location Description: - Choosen Under Heghnay 29.						
Site GPS Coordinates: N	/39.32273 NO	14. 69944	Ch0>\$7,40	Facility Name: KC, Todd Caguic WUTP						
Date & Time: 03-14-0	5; 1715		Facility Nan							
Personnel: CHAD BA	Personnel: CHAO BANDON, JERRAN PORTEN Current Weather Conditions: 45°F, PARTLY CLOUDY Photo Ids: Upstream: 1640 B Downstream: 15				Permit Number: Weather Conditions for Past 7 days:					
Current Weather Condit										
						· · · · · · · · · · · · · · · · · · ·				
ses Observed*:										
☐ Swimming	☐ Skin diving	□s	CUBA diving		Tubing	☐ Water skiing				
☐ Wind surfing	☐ Kayaking	□ F	Coating	0,	Wading	☐ Rafting				
☐ Hunting	☐ Trapping	O F	ishing	1	None of the above	Other:				
Describe: (include numb VERY SHALLOW 5 HACHWAY OVERPA	•	SOD OF	Maavly Fi	ve Scoi	MENT AND SAN	O UNDGINERTH				
VERY SHALLOWS HIGHWAY OVERPA	n.5,					•				
VERY SHALLOWS HICHWAY OVERPA	n.5,	promote or i		al uses. A		nce or unusual				
VERY SHALLOW S HACHWAY OVERPA Irrounding Condition ms of interest.)	ns*: (Mark all that]	promote or i	mpede recreation	al uses. A	ttach photos of evide	nce or unusual Campgrounds				
VERY SHALLOW S HACHWAY OVERPA Irrounding Condition ms of interest.) City/county parks	ns*: (Mark all that]	promote or i	mpede recreation conservation land al forests	al uses. A	ttach photos of evide Urban areas Vature trails	nce or unusual Campgrounds Stairs/walkway				
VENY SHALLOW 5 HIGHWAY OVERPA Irrounding Condition ms of interest.) ☐ City/county parks ☐ Boating accesses	ns*: (Mark all that property of the parks of	promote or i	mpede recreation conservation land al forests	al uses. A	ttach photos of evide Urban areas Vature trails	nce or unusual Campgrounds				
PACHUAY OVERPA Partial City/county parks Boating accesses No trespass sign	ns*: (Mark all that property of the parks of	D MDC □ Nation	mpede recreation conservation land al forests	al uses. An	ttach photos of evide Urban areas Vature trails	nce or unusual Campgrounds Stairs/walkway				
PACHUAY OVERPA PACHUAY OVERPA City/county parks Boating accesses No trespass sign	ns*: (Mark all that property of the parks ☐ Playgrounds ☐ State parks ☐ Fence	D MDC	mpede recreation conservation land al forests lopes	al uses. An	ttach photos of evide Urban areas Vature trails Other: Hagnuay: C	nce or unusual ☐ Campgrounds ☐ Stairs/walkway				

Site Locations Map(s): Attach a map of entire segment with assessment sites clearly labeled. Mark any other items that may be of interest. (Include photographs)

^{*}Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

^{*-} GPS COORDINATES INCOMMENT, MOVED SITE TO AGEN UNDER HIGHLAY 29.

Page Two - Data Sheet B for WBID # 71:

Stream Morpholo Upstream View		nensions: 0.1	, 0.22 , 0,22, c	പര പരം		
□ Riffle Width		Length (ft):	Avg. Depth		Max. Depth (ft):	
□ Run Width	(ft):	Length (ft):	Avg. Depth	(ft):	Max. Depth (ft):	
Pool Width	(ft): 4.3 m	Length (ft): 2	om Avg. Depth	(ft): 0,33 _M	Max. Depth (ft):	1.0m
□ Flow Preser	u? Yes	BK16ed			05; 4m=855:4m	······
Downstream Vi	ew Physical	Dimensions: b. c	01, 0.1, 0.01, 0.0		Ft. 10.04 m	
☐ Riffle Width		Length (ft):	Avg. Depth		Max. Depth (ft):	
☑ Run Width	(ft): 3 ₀₀	Length (ft): 있	On Avg. Depth	(ft): 0.03 m	Max. Depth (ft):	0.1.
□ Pool Width	(ft):	Length (ft):	Avg. Depth		Max. Depth (ft):	
Flow Preser	nt? 🗹 Yes	□ No	Estimated (1	t³/sec): 4m=3	575; 4m=305; 4m=	36
Substrate*: (These	values should a	dd un to 100%)			FMU=0.12-1	٠
% Cobbl		Gravel 50	% Sand 45	% Silt	% Mud/Clay	% Bedrock
Vater Characteri Odor:	stics*: (Mark :	all that apply.) Musky	□ Chemical	☑ None	Other:	·
Color:	□ Clear	☐ Green	□ Gray	Milky	TOther: BNow.	~
Bottom Deposit:	□ Sludge	□ Solids	Ine sediments	□ None	Other:	
Surface Deposit:	₩ Oil	□ Scum	□ Foam	□ None	Other:	
This information is no comprehensive underst lecision on the recreation, the undersigned latasheet is true a signed:	ot to be used sold anding of water on use analysis , hereby affin nd accurate.	ely for removal of a conditions. Conserbut may point to co	recreational use designmently, this information ditions that need furth f my knowledge, t	nation but rather on is not intendence analysis or the hat all infor	d to directly influence that effect another use. mation reported of	n this UAA
Organization: 1	ETRA TECH	Inc.	Positio	n: Associat	to Scientist	*
7	R-03	-14-03				





Data Sheet B - Site Characterization

(A separate data sheet must be completed for each site)

Missouri WBID #: 7	a*		Site Location Description: AT FATENSECTION OF POUTE O AND NWIBS ST.						
Site GPS Coordinates	H34.33160 W014	V1635	AT FATENS	AT ANTENSECTION OF MOUTE O AND PMI >2 ST.					
Date & Time: 03-19	0100 ، دّن		Facility Name: Told CODSL UNTP						
Personnel: OHAD So	th Devit, JE namy	Aosee~		Permit Number:					
Current Weather Cond	litions: 34°F. Jaka	CY CLGUDY	Weather Cond	litions for Past 7 days:	······································				
Photo Ids: Upstream:		wnstream: 15	ყ პ	ner:					
es Observed*:									
☐ Swimming	☐ Skin diving	□ sc	UBA diving	☐ Tubing	☐ Water skiing				
☐ Wind surfing	☐ Kayaking	□ Во		☐ Wading	☐ Water skiing				
☐ Hunting	☐ Trapping	☐ Fisl		M None of the above	Other:				
Describe: (include nur	nher of individuals re-	creating, frequ	ency of use the	o do ou se					
	or maryanara ro		oney or asc, pino	o-cocumentation of evidence	of recreational uses, etc				
rrounding Conditi			***************************************	uses. Attach photos of evide					
rrounding Conditins of interest.)	ons*: (Mark all that	promote or im	pede recreationa	uses. Attach photos of evide	nce or unusual				
rrounding Conditins of interest.)	ons*: (Mark all that	promote or im	pede recreationa	uses. Attach photos of evide	nce or unusual				
rrounding Conditins of interest.) City/county parks Boating accesses	Ons*: (Mark all that ☐ Playgrounds ☐ State parks	promote or imp	pede recreationa nservation lands forests	uses. Attach photos of evide Urban areas Nature trails	nce or unusual Ci Campgrounds Stairs/walkway				
rrounding Conditins of interest.) City/county parks Boating accesses No trespass sign	ons*: (Mark all that Playgrounds State parks Fence	promote or im	pede recreationa nservation lands forests	uses. Attach photos of evide	nce or unusual Ci Campgrounds Stairs/walkway				
rrounding Conditions of interest.) City/county parks Boating accesses No trespass sign	ons*: (Mark all that Playgrounds State parks Fence	promote or imp	pede recreationa nservation lands forests	uses. Attach photos of evide Urban areas Nature trails	nce or unusual Ci Campgrounds Stairs/walkway				
rrounding Conditions of interest.) City/county parks Boating accesses No trespass sign	ons*: (Mark all that Playgrounds State parks Fence	promote or im MDC con National	pede recreationa nservation lands forests	uses. Attach photos of evide Urban areas Nature trails	nce or unusual Ci Campgrounds Stairs/walkway				
rrounding Conditins of interest.) City/county parks Boating accesses No trespass sign idence of Human I	ons*: (Mark all that ☐ Playgrounds ☐ State parks ☐ Fence Jse*:	promote or im MDC cor National Steep slo	pede recreationa nservation lands forests pes	uses. Attach photos of evide ☐ Urban areas ☐ Nature trails ☑ Other: ACAICULT	nce or unusual Campgrounds Stairs/walkway				

other items that may be of interest. (Include photographs)

*Some of this information is not intended to directly influence a decision on any one particular recreational use analysis but may point to conditions that need further analysis or that effect another use.

*- ALTERNATE SITE LOCATION- ONGLINAL LOCATION INACCESSIBLE. CEA

September 29, 2004

JR 03-15-05

Page Two - Data Sheet B for WBID # 72 *:

tream Morp					A) N	3			
□ Riffle	Width (fi		mensions: .c. Length (ft):				Max. Depth	(ft):	
☑ Run	Width (fi		Length (ft):			(ft): 2,89m	Max. Depth	· · · · · · · · · · · · · · · · · · ·	2
□ Pool	Width (f)		Length (ft):		vg. Depth		Max. Depth		יאמ
Flow	Present?	·	□ No		<u>-</u>		95; 4m =180; 4m	• -	
110W	1 resent	E) 164	<u> </u>				Flow = 0.23	~15	
Downstrea	am Viev	v Physical	Dimensions:	, 64 , 652,	ى، د€ى.	5. (0)			
☐ Riffle	Width (fi	t):	Length (ft):	A	vg. Depth	(ft):	Max. Depth	(ft):	
☑ Run	Width (fi)፡	Length (ft):	BOM A	vg. Depth	(ft): 0.03m	Max. Depth	(ft): , O	ধ্ৰু
☐ Pool	Width (fi	t):	Length (ft):		vg. Depth		Max. Depth		
☑ Flow	Present?	☑ Yes	□ No	E	stimated (f	t³/sec): 4m=	215 ; 4m = 165 : 4.	₂ ,-12	
-b							Flows 0.25		
	(These va Cobble		dd up to 100%.) % Sand	ន	% Silt	% Mud/Clay	95	% Bedrock
I			· · · · · · · · · · · · · · · · · · ·		<u> </u>				
quatic Vege	etation*	: (note amou	int of vegetation	or algal growth	at the asse	essment site)			•
	acteristi	es*; (Mark:	all that apply.)						
Odor:		Sewage	□ Musky	Chen	rical	None	☐ Other:		
Color:		Clear	☑ Green	☐ Gray		☐ Milky	☐ Other:		
Bottom Der	posit:	🗆 Sludge	☐ Solids	☐ Fine	sediments	None	Other:		
Surface Dep	posit:	□ Oil	□ Scum	□ Foam	ı	E None	☐ Other:		
This information imprehensive to cision on the rather the understatasheet is to gned:	igned, h	o be used solding of water use analysis tereby affile accurate.	ely for removal conditions. Co but may point to rm to the best	of a recreationa nsequently, this o conditions tha	l use design information t need furth wledge, t	nation but rath on is not intender analysis on hat all info	terviews) to this form is to provide a moded to directly influe that effect another untraction reports	ore ince a ise.	his UAA
	ber 29, 20	,	,					Page	19



